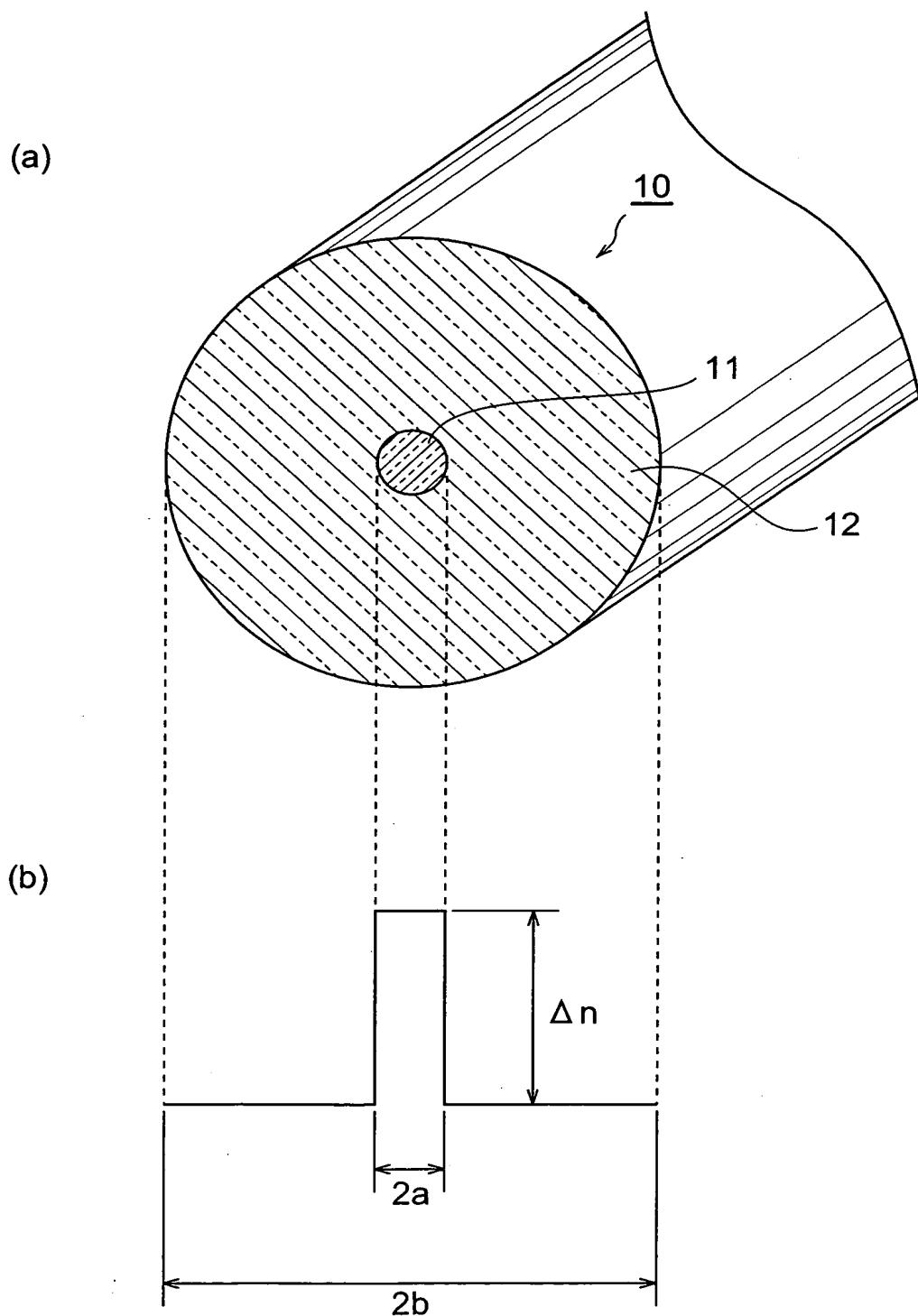
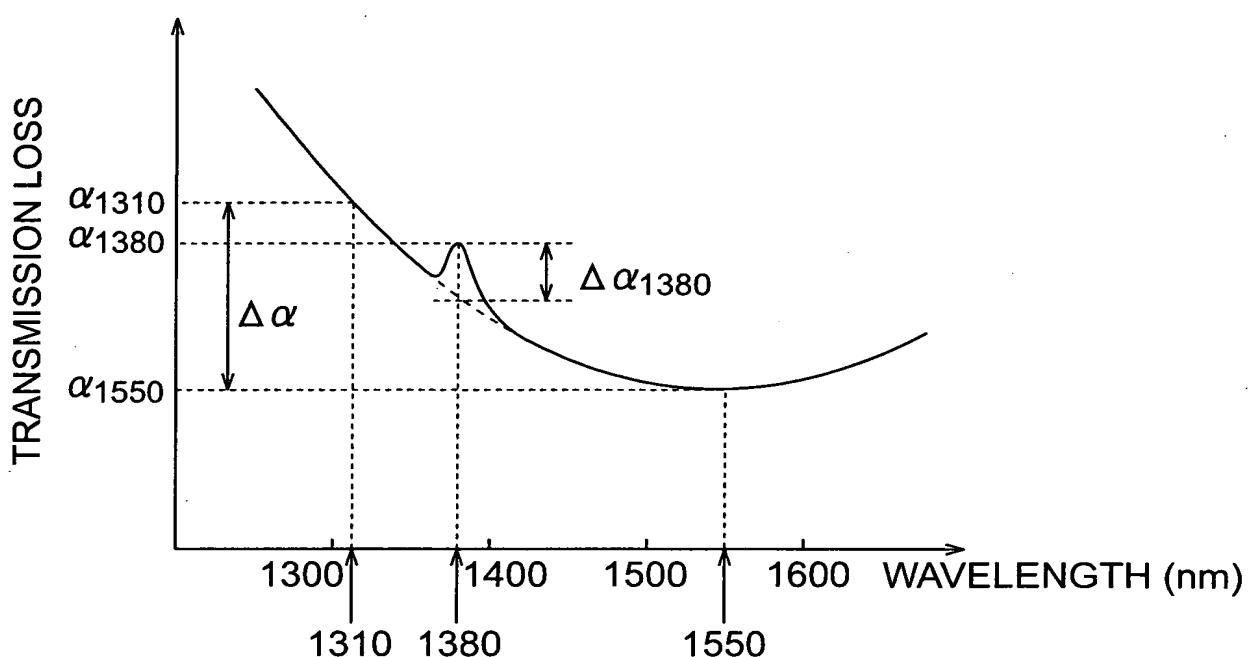
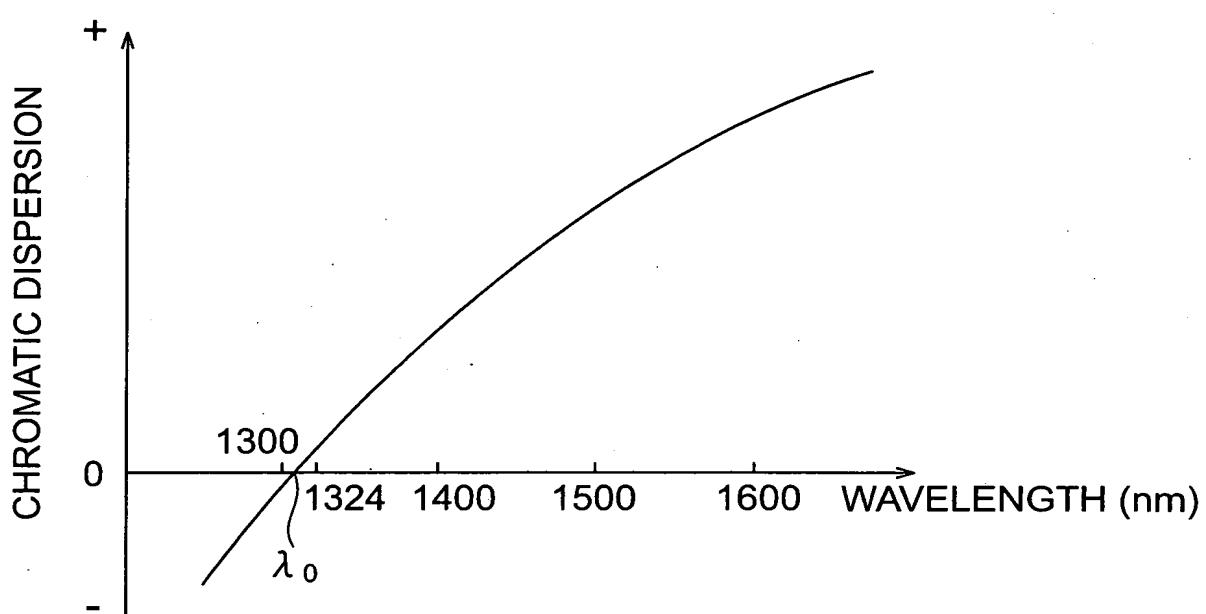


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**Fig.1**

**Fig.2**

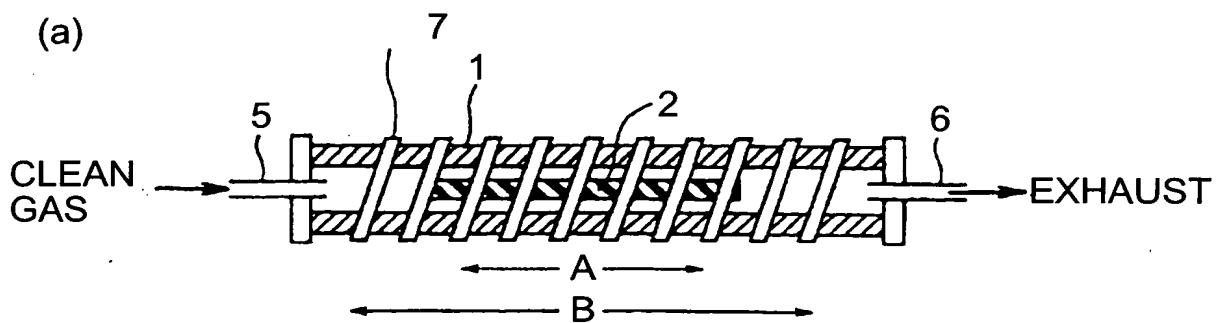
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***Fig.3***

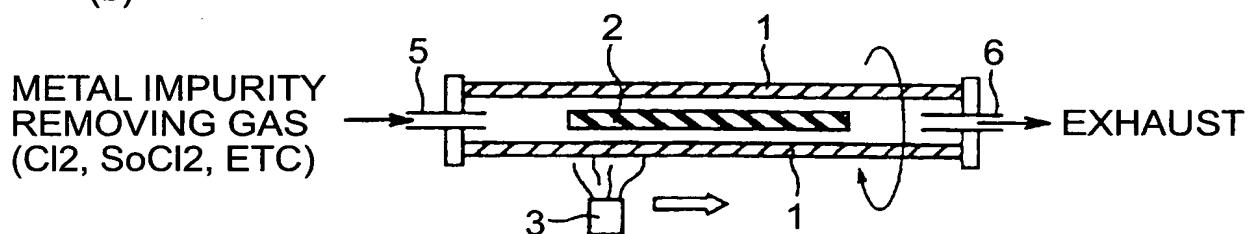
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**Fig.4**

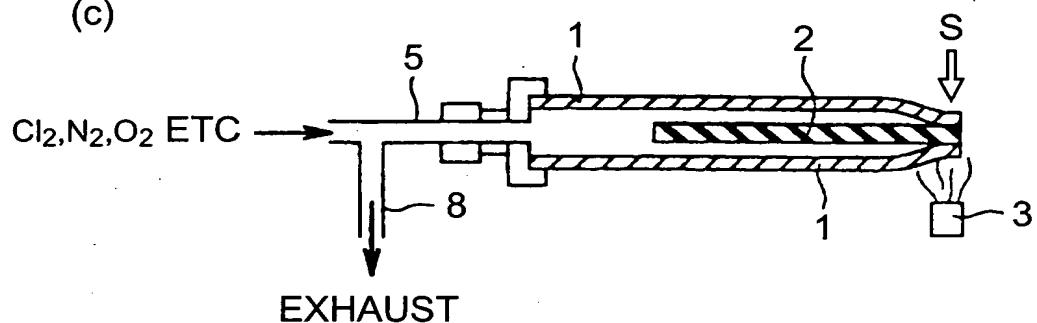
(a)



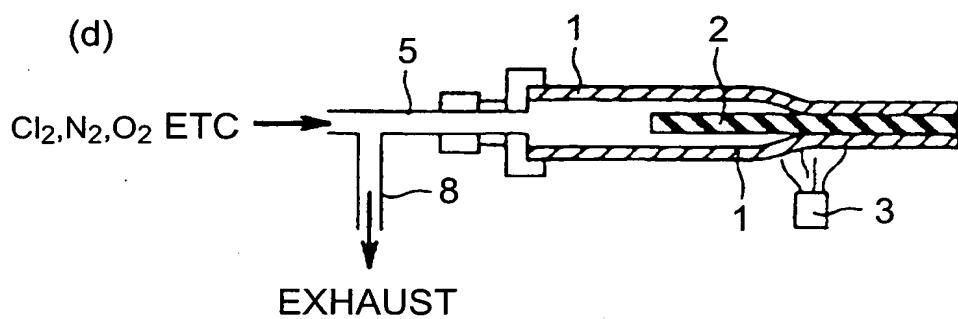
(b)



(c)



(d)



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***Fig. 5***

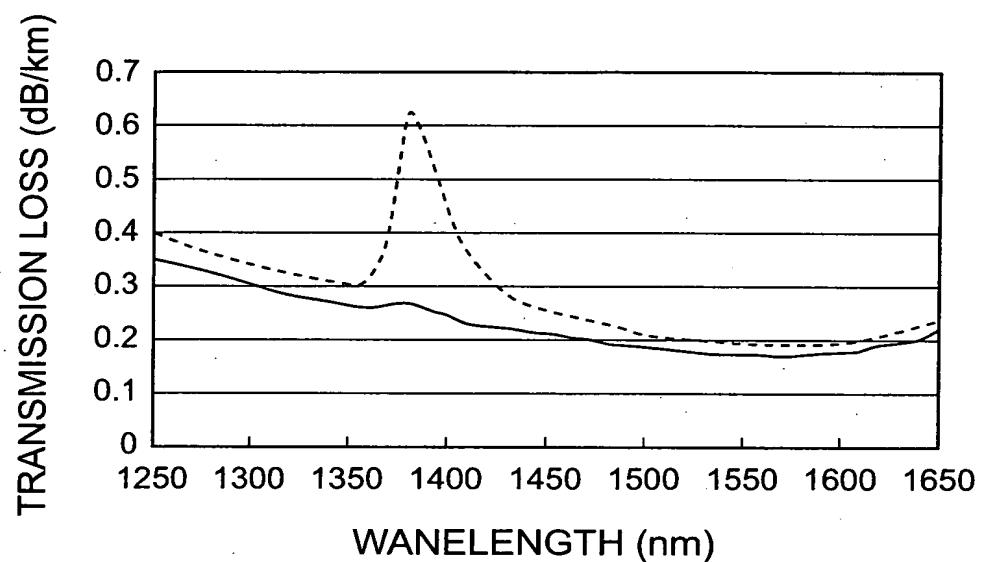
	SAMPLE A	SCOMPARATIVE EXAMPLE A
TRANSMISSION LOSS $\alpha_{1310}$	(dB/km)	0 . 29
TRANSMISSION LOSS $\alpha_{1380}$	(dB/km)	0 . 27
TRANSMISSION LOSS $\alpha_{1550}$	(dB/km)	0 . 17
LOSS DIFFERENCE $\Delta \alpha (\alpha_{1550} - \alpha_{1310})$	(dB/km)	0 . 12
OH-RELATED LOSS INCREASE $\Delta \alpha_{1310}$	(dB/km)	0 . 03
CABLE CUTOFF WAVELENGTH	(nm)	1220
ZERO DISPERSION WAVELENGTH	(nm)	1310
MODE FIELD DIAMETER (AT WAVELENGTH OF 1550 nm)	( $\mu$ m )	9 . 7
BENDING LOSS (AT WAVELENGTH OF 1550 nm AND IN BENDING OF 20nm)	(dB/m)	2

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**Fig.6**

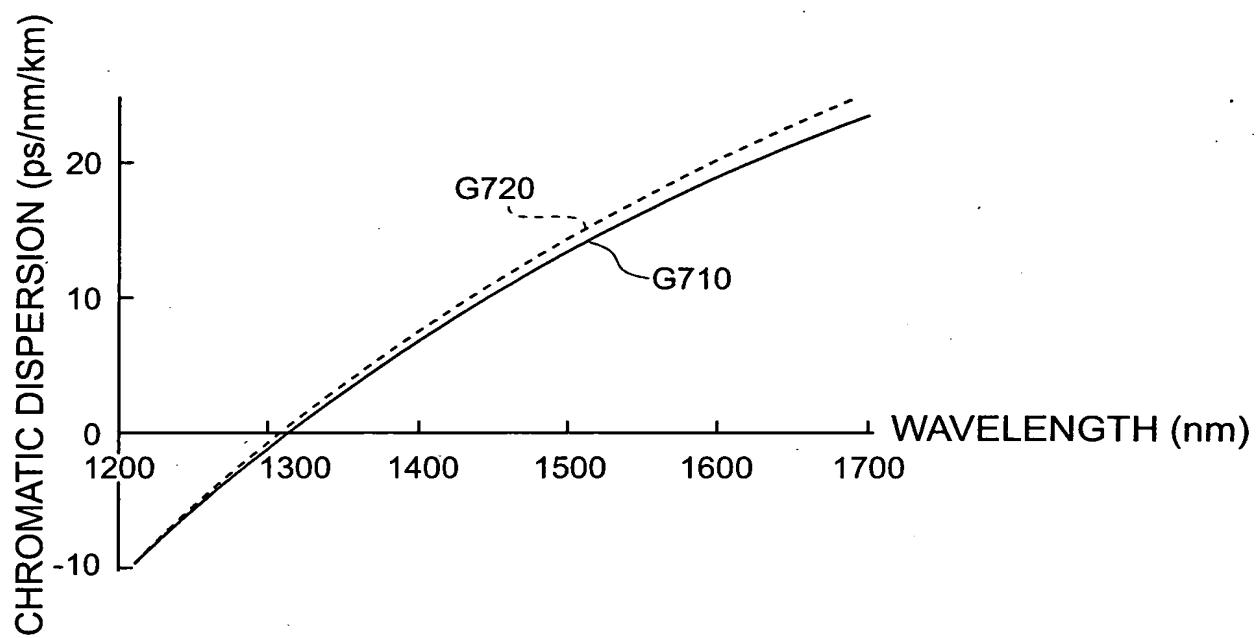


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**Fig.7**

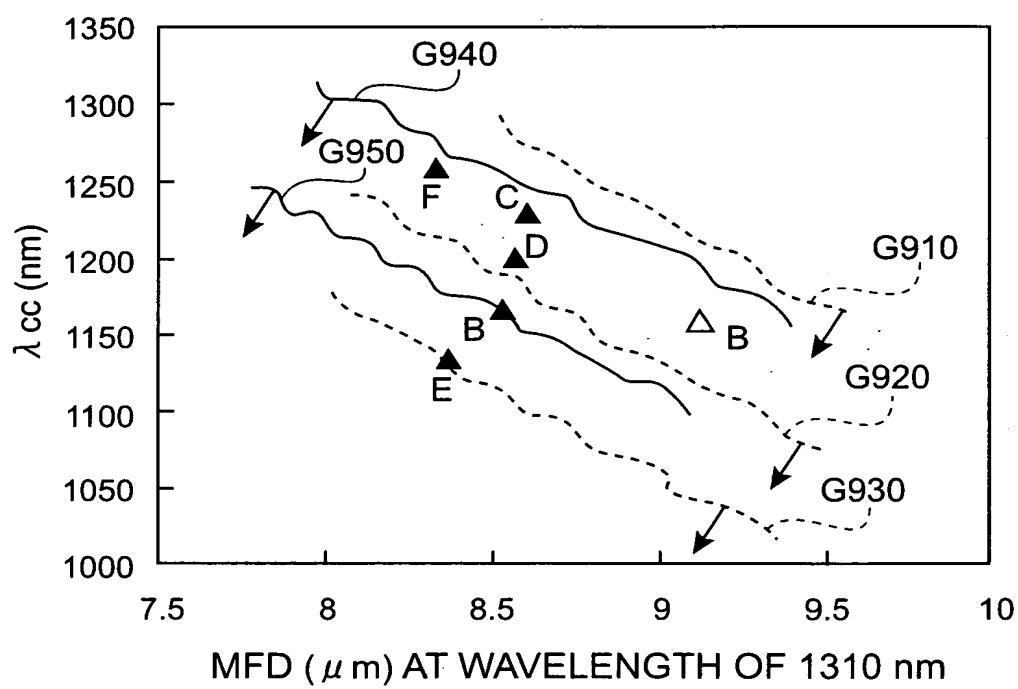


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**Fig.8**

$\Delta n$ (%)	$2a$ ( $\mu m$ )	CABLE CUTOFF WAVE- LENGTH <sub>H</sub> (nm)	MFD AT 1310nm ( $\mu m$ )	ZERO DISPE- RSION WAVE- LENGTH (nm)	CHRO- MATIC DISPE- RSION AT 1550 nm (nm)	DISPE- RSION SLOPE AT 1550 nm (ps/nm/km) (ps/nm <sup>2</sup> /km)	ZERO DISPE- RSION SLOPE AT 1310 nm (ps/nm/km) (ps/nm <sup>2</sup> /km)	TRANS- MISSION LOSS AT 1310 nm (dB/km)	TRANS- MISSION LOSS AT 1380 nm (dB/km)	OH- RELATED LOSS AT 1380 nm (dB/km)	TRANS- MISSION LOSS AT WAVE- LENGTH OF 1550nm (dB/km)	FIBER STRUCTURE (CORE MATERIAL CLADDING MATERIAL)
SAMPLE B	0.38	7.80	1166	8.53	1318	14.97	0.0540	0.0793				
SAMPLE C	0.935	8.16	1230	8.06	1313	15.46	0.0544	0.0806				
SAMPLE D	0.39	8.02	1200	8.57	1313	15.39	0.0537	0.0801				
SAMPLE E	0.395	7.56	1135	8.37	1318	14.86	0.0531	0.0789				
SAMPLE F	0.42	7.60	1260	8.33	1307	15.75	0.0536	0.0816				
SAMPLE G	0.385	8.14	1184	8.72	1312	15.90	0.0547	0.0800				
SAMPLE H	0.38	8.52	1226	8.92	1304	16.66	0.0548	0.0819				
SAMPLE B	0.36	8.10	1133	8.92	1317	15.39	0.0544	0.0790				
COMPARATIVE EXAMPLE	-	-	1158	9.13	1316	16.50	0.0584	0.0850	0.33	0.62	0.31	0.19
												Ge-DOPED GLASS /PURE SILICA- GLASS

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**Fig.9**

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*Fig. 10*

